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August 19, 2010

Harris Corporation
221 Jefferson Ridge Parkway
Lynchburg, VA 24501

Dear Bruno Yurman,

Enclosed is the EMC Wireless test report for MPE measurements of the Harris Corporation, M7200 700/800 MHz Mobile Radio as evaluated to the requirements of Title 47 of the CFR, Ch. 1 (10-1-06 ed.), Part 1, Subpart I, Title 47 of the CFR, Ch. 1 (10-1-06 ed.), Part 2, Subpart J, and RSS-102, Issue 2, November 2005.

Thank you for using the services of MET Laboratories, Inc. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,
MET LABORATORIES, INC.

Jennifer Warnell
Documentation Department

Reference: (\Harris Corporation\EMC29310-MPE Rev. 2)

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RF Maximum Permissible Exposure (MPE) Report For Controlled and Uncontrolled Environments

for the

**Harris Corporation
M7200 700/800 MHz Mobile Radio**

Tested under
the FCC Certification Rules
contained in
Title 47 of the CFR, Part 1 Subpart I & Part 2 Subpart J
&
RSS-102, Issue 2, November 2005

MET Report: EMC29310-MPE Rev. 2

August 19, 2010

Prepared For:

**Harris Corporation
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Lynchburg, VA 24501**

Prepared By:
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&
RSS-102, Issue 2, November 2005



Len Knight, Project Engineer
Electromagnetic Compatibility Lab



Jennifer Warnell
Documentation Department

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules Parts 1 and 2, and Industry Canada standards RSS-102, Issue 2, November 2005 under normal use and maintenance.



Shawn McMillen,
Wireless Manager, Electromagnetic Compatibility Lab



Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	July 30, 2010	Initial Issue.
1	August 12, 2010	Customer corrections.
2	August 19, 2010	Revised to correct EUT name.

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List of Terms and Abbreviations

AC	A lternating C urrent
ACF	A ntenna C orrection F actor
Cal	C alibration
d	M easurement D istance
dB	D ecibels
dB_μA	D ecibels above one μ icroamp
dB_μV	D ecibels above one μ icrovolt
dB_μA/m	D ecibels above one μ icroamp p er meter
dB_μV/m	D ecibels above one μ icrovolt p er meter
DC	D irect C urrent
E	E lectric F ield
DSL	D igital S ubscriber L ine
ESD	E lectrostatic D ischarge
EUT	E quipment U nder T est
f	F requency
FCC	F ederal C ommunications C ommission
GRP	G round R eference P lane
H	M agnetic F ield
HCP	H orizontal C oupling P lane
Hz	H ertz
IEC	I nternational E lectrotechnical C ommission
kHz	k ilohertz
kPa	k ilopascal
kV	k ilovolt
LISN	L ine I mpedance S tabilization N etwork
MHz	M egahertz
μH	μ icrohenry
μF	μ icrofarad
μs	μ icroseconds
NEBS	N etwork E quipment- B uilding S ystem
PRF	P ulse R epetition F requency
RF	R adio F requency
RMS	R oot- M ean- S quare
TWT	T raveling W ave T ube
V/m	V olts p er meter
VCP	V ertical C oupling P lane

I. Executive Summary

A. Purpose of Test

An MPE evaluation was performed to determine compliance of the Harris Corporation M7200 700/800 MHz Mobile Radio, with the requirements of Part 1 and 2. All references are to the most current version of Title 47 of the Code of Federal Regulations in effect. In accordance with §2.1033, the following data is presented in support of the Certification of the M7200 700/800 MHz Mobile Radio. Harris Corporation should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the M7200 700/800 MHz Mobile Radio, has been **permanently** discontinued.

B. MPE Measurements and Applicable Regulations

This test report presents the results of Maximum Permissible Exposure (MPE)¹ measurements performed on the Harris Corporation M7200 700/800 MHz Mobile Radio, operating in the frequency ranges 764 – 806 MHz, 806 – 824 MHz, and 851 – 869 MHz. The tests were performed in accordance with TCB training material and the following parts of the FCC Rules and Regulations and Industry Canada Radio Standard Specification:

- IEEE Std. C95.1: 2005: “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz”
- IEEE Std. C95.3: 2002: “IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields with Respect to Human Exposure to Such Fields, 100 kHz – 300 GHz”
- FCC OET Bulletin 65, Edition 97-01: “Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields”
- FCC Supplement C to OET Bulletin 65, Edition 01-01: “Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emission.”
- Subpart I, Part 1 of 47 CRF FCC Rules and Regulations, Edition 10-1-06: “Procedures Implementing the National Environmental Policy Act of 1969.” Specifically, Paragraph 1.1310: “Radiofrequency Radiation Exposure Limits”
- Subpart J, Part 2 of 47 CFR FCC Rules and Regulations, Edition 10-1-06: “Equipment Authorization Procedures.” Specifically, Paragraph 2.1091: “Radiofrequency Radiation Exposure Evaluation: Mobile Devices”
- RSS-102, Issue 2, November 2005: “Spectrum Management and Telecommunications Radio Standards Specification. Radiofrequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands.)”

¹ By definition, maximum permissible exposure (MPE) is rms or peak electric (or magnetic) field strength, or the plane-wave equivalent power densities associated with these fields to which a person may be exposed without harmful effect and with an acceptable safety factor.

II. Equipment Configuration

A. Overview

MET Laboratories, Inc. was contracted by Harris Corporation to perform testing on the M7200 700/800 MHz Mobile Radio, under Harris Corporation's purchase order number 1074990.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Harris Corporation, M7200 700/800 MHz Mobile Radio.

The results obtained relate only to the item(s) tested.

Model(s) Tested:	M7200 700/800 MHz Mobile Radio		
EUT Specifications:	Primary Power: 13.8 V Vehicular Battery Voltage		
	FCC ID: BV8M7200 IC: 3670A-M7200		
	Type of Modulations:	Analog CW FM, C4FM, 4-Level GFSK	
	EUT Frequency Ranges:	764 MHz – 806 MHz 806 MHz – 824 MHz 851 MHz – 869 MHz	
Analysis:	The results obtained relate only to the item(s) tested.		
Environmental Test Conditions:	Temperature: 15-35° C		
	Relative Humidity: 30-60%		
	Barometric Pressure: 860-1060 mbar		
Evaluated by:	Len Knight		
Report Date(s):	August 19, 2010		

Table 1. EUT Summary Table

B. Test Site

All testing was performed at MET Laboratories, Inc., 914 W. Patapsco Ave., Baltimore, MD 21230. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a 3 meter anechoic chamber.

C. Description of Test Sample

The Harris Corporation M7200 700/800 MHz Mobile Radio, Equipment Under Test (EUT), is as follows:

FCC ID: BV8M7200

IC: 3670A-M7200

M7200 700 MHz and 800 MHz mobile radio

New antenna parts are -

AN-225001-005

AN-225001-001

Sti-Co CCAS-SB-700

Also, the coax cable is changed from RG-58 to RF-195, with a corresponding length change from 17 feet to 6 feet for the AN-225001-005 and the AN-225001-001 antennas.

For the purposes of testing, the radio submitted was programmed to transmit and receive continuous analog voice continuous-wave FM modulation.

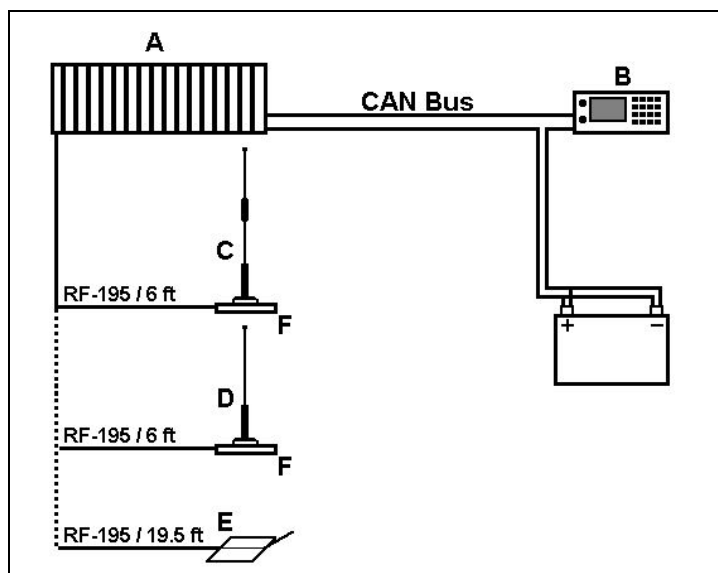


Figure 1. Block Diagram of Test Configuration

D. Equipment Configuration

The EUT was set up as outlined in Figure 1, Block Diagram of Test Setup.

Ref. ID	Name / Description	Manufacturer	Model Number	Serial Number
A	M7200 700/800 MHz mobile radio	Harris	RU25001-0001	A40074003510
B	CH-721 Control Unit	Harris	CU23218-0004	96005244
C	7.15 dBi Antenna	PC Tel	AN-225001-005	N/A
D	5.15 dBi Antenna	PC Tel	AN-225001-001	N/A
E	0dBi Cellular Hidden Antenna	Sti-Co	CCAS-SB-900 CCAS-SB-700	N/A
F	Magnetic Antenna Mount	Harris	AN-125001-008	N/A

Table 2. Equipment Configuration

E. Mode of Operation

The mobile radio was pre-programmed with thirteen Tx/Rx frequency pairs, four in the 700 MHz band and nine in the 700/800 MHz band.

The mobile radio can transmit using the mobile microphone on each of the respective Tx frequencies. The Tx power on each of the six frequencies was 15 watts (continuous analog CW modulation).

F. Modifications

- a) **Modifications to EUT**
No modifications were made to the EUT.
- b) **Modifications to Test Standard**
No modifications were made to the test standard.

G. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Harris Corporation upon completion of testing.

III.MPE Limits

A. Limits for Maximum Permissible Exposure (MPE)

Requirements: FCC Guidelines for evaluating exposure to RF Emissions, from the FCC OET Bulletin 65, Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields.

Frequency Range, MHz	Power Density (S), mW/cm ²	Averaging Time, min
300-1500	f/1500	30
Note that "f" in the column for power density is the frequency in MHz		

Table 3. Limits for General Population/Uncontrolled Exposure

Frequency Range, MHz	Power Density (S), mW/cm ²	Averaging Time, min
300-1500	f/300	6
Note that "f" in the column for power density is the frequency in MHz		

Table 4. Limits for Occupational/Controlled Exposure

Procedures: Prior to radiated testing, the radio was connected to a power meter in order to see if any channel was significantly stronger than the next. For the purposes of testing, the lowest channel was used.

700 MHz Band	
Frequency (MHz)	Power (dBm)
764.0150	42.40
775.9875	42.27
794.0125	42.18
805.9875	42.22

800 MHz Band	
Frequency (MHz)	Power (dBm)
806.0000	42.31
806.0125	42.30
815.0000	42.20
823.9875	42.08
824.0000	42.09
851.0125	41.65
860.0000	41.70
868.9875	41.70
869.0000	41.62

The MPE limits for the EUT at 764.0150 and 806.0000 MHz are shown in Table 5.

Frequency, MHz	MPE Limit for Occupational/Controlled Environment, mW/cm ²	MPE Limit for General Population/Uncontrolled Environment, mW/cm ²
764.0150	2.547	0.509
806.0000	2.687	0.537

Table 5. MPE Limits for the Frequency Transmitted by the EUT

B. Calculating MPE Distance from Antenna

From the OET 65, Equations for Predicting RF Fields:

$$S = \frac{PG}{4\pi R^2}$$

Rearranging the equation for distance:

$$R = \sqrt{\frac{PG}{4\pi S}}$$

Where G is a numerical antenna gain, P is the maximum power input to the antenna and S is the MPE limit for a power density, respectively.

Cable loss was taken into account when calculating for distance.

700 MHz:

AN-225005-001
P = 14.893 W
G = 3.273
S = 0.509/2.547

AN-225005-005
P = 14.893 W
G = 5.19
S = 0.509/2.547

CCAS-SB-900 or CCAS-SB-700
P = 10.568 W
G = 1
S = 0.509/2.547

800 MHz:

AN-225005-001
P = 14.588 W
G = 3.273
S = 0.5373/2.687

AN-225005-005
P = 14.588 W
G = 5.19
S = 0.5373/2.687

CCAS-SB-900 or CCAS-SB-700
P = 10.3 W
G = 1
S = 0.5373/2.687

The R calculations, including the power reduction for cable loss are shown in Table 6.

700 MHz

Cable Type/Loss, dB	Antenna Model	R for Occupational/Controlled Environment, cm	R for Population/Uncontrolled Environment, cm
RF-195/0.67	AN-225005-001	39.01	87.23
RF-195/0.67	AN-225005-005	49.14	109.9
RF-195/2.16	CCAS-SB-900 CCAS-SB-700	18.17	40.64

800 MHz

Cable Type/Loss, dB	Antenna Model	R for Occupational/Controlled Environment, cm	R for Population/Uncontrolled Environment, cm
RF-195/0.67	AN-225005-001	37.58	84.05
RF-195/0.67	AN-225005-005	47.35	105.89
RF-195/2.16	CCAS-SB-900 CCAS-SB-700	17.47	39.06

Table 6. Calculated MPE Distance for Different Environments

Test Procedures:

1. The test setup was as described in the EUT Configuration section of this test report. The EUT, the control head, and power supply were separated from the transmitting antenna by as much distance as the cabling would allow.
2. For the 700 MHz band, the antennas under test were mounted to a 30x30cm ground plane and placed on an 80cm test table. For the 800 MHz band, a 20x20cm ground plane was used.
3. The EUT was set to transmit continuously at the selected frequency and modulation at maximum RF power. The distance between the field intensity probe and the EUT's antenna was equal to the calculated distance R applicable either for controlled or uncontrolled environments.
4. Field intensity measurements were taken at different heights of the probe from the ground (0.1 to 2 meters) in 10cm increments, while rotating versus azimuth (from 0° to 360°).
5. Each maximized peak field intensity measurement was recorded.
6. Average values of power density were calculated for the imaginary whole human body (0.1–2.0 m), for the lower part of the body (0.1–0.9 m) and for the upper part of the body (1.0–2.0 m). The results of calculations are shown in the following tables.

Test Results: The EUT was compliant with this requirement.

Test Engineer: Len Knight

Test Date: 06/28/10

700 MHz Results

General Population / Uncontrolled Environment at 87.23 AN-225005-001			
	Raw	Corrected V/m	PD mW/cm2
10	9.33	7.7439	0.015907
20	10.8	8.964	0.021314
30	12.14	10.0762	0.026931
40	13.6	11.288	0.033798
50	16.4	13.612	0.049148
60	19.83	16.4589	0.071856
70	21.74	18.0442	0.086364
80	24.9	20.667	0.113296
90	28.1	23.323	0.144287
100	30	24.9	0.164459
110	30.4	25.232	0.168874
120	28.2	23.406	0.145316
130	22.2	18.426	0.090058
140	21.57	17.9031	0.085019
150	16.5	13.695	0.049749
160	12.9	10.707	0.030408
170	10.4	8.632	0.019764
180	6.67	5.5361	0.00813
190	7.6	6.308	0.010555
200	8.9	7.387	0.014474

General Population / Uncontrolled Environment 87.23 cm	5.15 dBi AN-225005-001
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.07
Lower Body (0.1 m to 0.9 m)	0.06
Upper Body (1.0 m to 2.0 m)	0.07

700 MHz Results

General Population / Uncontrolled Environment at 40.64 CCAS-SB-900 or CCAS-SB-700			
	Raw	Corrected V/m	PD mW/cm ²
10	20.5	17.015	0.076793
20	22.4	18.592	0.091688
30	22	18.26	0.088442
40	27.44	22.7752	0.137589
50	28.6	23.738	0.149468
60	34.6	28.718	0.21876
70	38.3	31.789	0.268048
80	44.2	36.686	0.356993
90	47.1	39.093	0.405375
100	45.2	37.516	0.373329
110	41.3	34.279	0.311684
120	39.06	32.4198	0.278791
130	34.14	28.3362	0.212981
140	33.78	28.0374	0.208513
150	31.78	26.3774	0.184554
160	25.21	20.9243	0.116134
170	25.8	21.414	0.121634
180	23.01	19.0983	0.096749
190	21.88	18.1604	0.08748
200	19.6	16.268	0.070198

General Population / Uncontrolled Environment 40.64 cm	0.0 dBi CCAS-SB-900 or CCAS-SB-700
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.19
Lower Body (0.1 m to 0.9 m)	0.20
Upper Body (1.0 m to 2.0 m)	0.19

700 MHz Results

General Population / Uncontrolled Environment at 109.9 AN-225005-005			
	Raw	Corrected V/m	PD mW/cm2
10	6.6	5.478	0.00796
20	9.45	7.8435	0.016318
30	9.78	8.1174	0.017478
40	11.45	9.5035	0.023957
50	11.5	9.545	0.024166
60	12.9	10.707	0.030408
70	13.9	11.537	0.035306
80	17.67	14.6661	0.057054
90	16.32	13.5456	0.048669
100	19.21	15.9443	0.067433
110	20.72	17.1976	0.07845
120	20.4	16.932	0.076046
130	16.79	13.9357	0.051513
140	12.52	10.3916	0.028643
150	8.65	7.1795	0.013672
160	4.7	3.901	0.004037
170	7.13	5.9179	0.00929
180	7.92	6.5736	0.011462
190	10.47	8.6901	0.020031
200	10.92	9.0636	0.02179

General Population / Uncontrolled Environment 109.9 cm	7.15 dBi AN-225005-005
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.03
Lower Body (0.1 m to 0.9 m)	0.03
Upper Body (1.0 m to 2.0 m)	0.03

700 MHz Results

Occupational / Controlled Environment at 39.01 AN-225005-001			
	Raw	Corrected V/m	PD mW/cm ²
10	7.8	6.474	0.011117
20	10.6	8.798	0.020532
30	11.5	9.545	0.024166
40	14.3	11.869	0.037367
50	19.7	16.351	0.070916
60	23.5	19.505	0.100914
70	25.9	21.497	0.122579
80	36.7	30.461	0.24612
90	53.75	44.6125	0.527924
100	68	56.44	0.844953
110	70	58.1	0.895387
120	61.1	50.713	0.682177
130	39.8	33.034	0.289455
140	20.24	16.7992	0.074858
150	14.4	11.952	0.037891
160	16.5	13.695	0.049749
170	17.5	14.525	0.055962
180	17.13	14.2179	0.05362
190	15.57	12.9231	0.044299
200	14.72	12.2176	0.039594

Occupational / Controlled Environment 39.01 cm	5.15 dBi AN-225005-001
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.21
Lower Body (0.1 m to 0.9 m)	0.13
Upper Body (1.0 m to 2.0 m)	0.28

700 MHz Results

Occupational / Controlled Environment at 49.14 AN-225005-005			
	Raw	Corrected V/m	PD mW/cm ²
10	8.7	7.221	0.013831
20	9.7	8.051	0.017193
30	12.79	10.6157	0.029892
40	13.62	11.3046	0.033898
50	14.96	12.4168	0.040896
60	16.3	13.529	0.04855
70	19.83	16.4589	0.071856
80	24.3	20.169	0.107901
90	29.2	24.236	0.155805
100	36.6	30.378	0.244781
110	39.66	32.9178	0.287422
120	37.22	30.8926	0.253144
130	28.97	24.0451	0.15336
140	19.88	16.5004	0.072218
150	20.49	17.0067	0.076718
160	22.2	18.426	0.090058
170	19.51	16.1933	0.069555
180	15.63	12.9729	0.044641
190	10	8.3	0.018273
200	6.95	5.7685	0.008826

Occupational / Controlled Environment 49.14 cm	7.15 dBi AN-225005-005
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.09
Lower Body (0.1 m to 0.9 m)	0.06
Upper Body (1.0 m to 2.0 m)	0.12

700 MHz Results

Occupational / Controlled Environment at 18.17 CCAS-SB-900 or CCAS-SB-700			
	Raw	Corrected V/m	PD mW/cm ²
10	23.73	19.6959	0.102899
20	22.6	18.758	0.093332
30	28.08	23.3064	0.144082
40	30.1	24.983	0.165557
50	36.8	30.544	0.247463
60	45.7	37.931	0.381634
70	56	46.48	0.573048
80	83.48	69.2884	1.273444
90	94.8	78.684	1.642221
100	92.2	76.526	1.553376
110	79.7	66.151	1.160731
120	60.1	49.883	0.66003
130	45.8	38.014	0.383306
140	39.75	32.9925	0.288728
150	32.6	27.058	0.1942
160	28.6	23.738	0.149468
170	24.78	20.5674	0.112206
180	21.8	18.094	0.086842
190	18.7	15.521	0.0639
200	17.8	14.774	0.057897

Occupational / Controlled Environment 18.17 cm	0.0 dBi CCAS-SB-900 or CCAS-SB-700
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.47
Lower Body (0.1 m to 0.9 m)	0.51
Upper Body (1.0 m to 2.0 m)	0.43

800 MHz Results

General Population / Uncontrolled Environment at 84.05 AN-225005-001			
	Raw	Corrected V/m	PD mW/cm ²
10	8.23	6.7486	0.012081
20	10.35	8.487	0.019106
30	10.35	8.487	0.019106
40	10.89	8.9298	0.021152
50	11.36	9.3152	0.023017
60	15.61	12.8002	0.04346
70	21.67	17.7694	0.083754
80	26.01	21.3282	0.120661
90	29.5	24.19	0.155214
100	30.38	24.9116	0.164612
110	30.93	25.3626	0.170626
120	29.1	23.862	0.151033
130	25.69	21.0658	0.11771
140	20.93	17.1626	0.078131
150	16.8	13.776	0.050339
160	11.7	9.594	0.024415
170	7.7	6.314	0.010575
180	4.79	3.9278	0.004092
190	3.76	3.0832	0.002522
200	3.52	2.8864	0.00221

General Population / Uncontrolled Environment 84.05 cm	5.15 dBi AN-225005-001
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.06
Lower Body (0.1 m to 0.9 m)	0.06
Upper Body (1.0 m to 2.0 m)	0.07

800 MHz Results

General Population / Uncontrolled Environment at 105.89 AN-225005-005			
	Raw	Corrected V/m	PD mW/cm ²
10	7.3	5.986	0.009505
20	7.45	6.109	0.009899
30	11.62	9.5284	0.024082
40	8.15	6.683	0.011847
50	10.33	8.4706	0.019032
60	14.08	11.5456	0.035358
70	16.41	13.4562	0.048029
80	18.32	15.0224	0.05986
90	21.67	17.7694	0.083754
100	21.85	17.917	0.085151
110	23.5	19.27	0.098497
120	23.57	19.3274	0.099084
130	21.52	17.6464	0.082598
140	17.52	14.3664	0.054746
150	13.17	10.7994	0.030936
160	8.8	7.216	0.013812
170	7.41	6.0762	0.009793
180	8.01	6.5682	0.011443
190	8.88	7.2816	0.014064
200	8.32	6.8224	0.012346

General Population / Uncontrolled Environment 105.89 cm	7.15 dBi AN-225005-005
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.04
Lower Body (0.1 m to 0.9 m)	0.03
Upper Body (1.0 m to 2.0 m)	0.05

800 MHz Results

Occupational / Controlled Environment at 37.58 AN-225005-001			
	Raw	Corrected V/m	PD mW/cm2
10	9	7.38	0.014447
20	9.43	7.7326	0.01586
30	11.32	9.2824	0.022855
40	13.74	11.2668	0.033671
50	16.44	13.4808	0.048205
60	20.3	16.646	0.073498
70	27.08	22.2056	0.130793
80	33.92	27.8144	0.20521
90	44.09	36.1538	0.34671
100	59.14	48.4948	0.623805
110	65.32	53.5624	0.76099
120	60.1	49.282	0.644222
130	40.8	33.456	0.296898
140	22.5	18.45	0.090292
150	14.94	12.2508	0.03981
160	14.01	11.4882	0.035008
170	12.91	10.5862	0.029726
180	12.4	10.168	0.027424
190	11.67	9.5694	0.02429
200	11.34	9.2988	0.022936

Occupational / Controlled Environment 37.58 cm	5.15 dBi AN-225005-001
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.17
Lower Body (0.1 m to 0.9 m)	0.10
Upper Body (1.0 m to 2.0 m)	0.24

800 MHz Results

Occupational / Controlled Environment at 47.35 AN-225005-005			
	Raw	Corrected V/m	PD mW/cm2
10	7.37	6.0434	0.009688
20	6.1	5.002	0.006637
30	10.36	8.4952	0.019143
40	12.85	10.537	0.02945
50	14.34	11.7588	0.036676
60	15.4	12.628	0.042299
70	18.6	15.252	0.061704
80	23.29	19.0978	0.096744
90	29.04	23.8128	0.150411
100	35.5	29.11	0.224772
110	41.38	33.9316	0.305399
120	40.52	33.2264	0.292837
130	32.32	26.5024	0.186307
140	25.61	21.0002	0.116978
150	23.73	19.4586	0.100434
160	23.65	19.393	0.099758
170	19.03	15.6046	0.06459
180	12.5	10.25	0.027868
190	6.42	5.2644	0.007351
200	2.96	2.4272	0.001563

Occupational / Controlled Environment 47.35 cm	7.15 dBi AN-225005-005
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.09
Lower Body (0.1 m to 0.9 m)	0.05
Upper Body (1.0 m to 2.0 m)	0.13

800 MHz Results

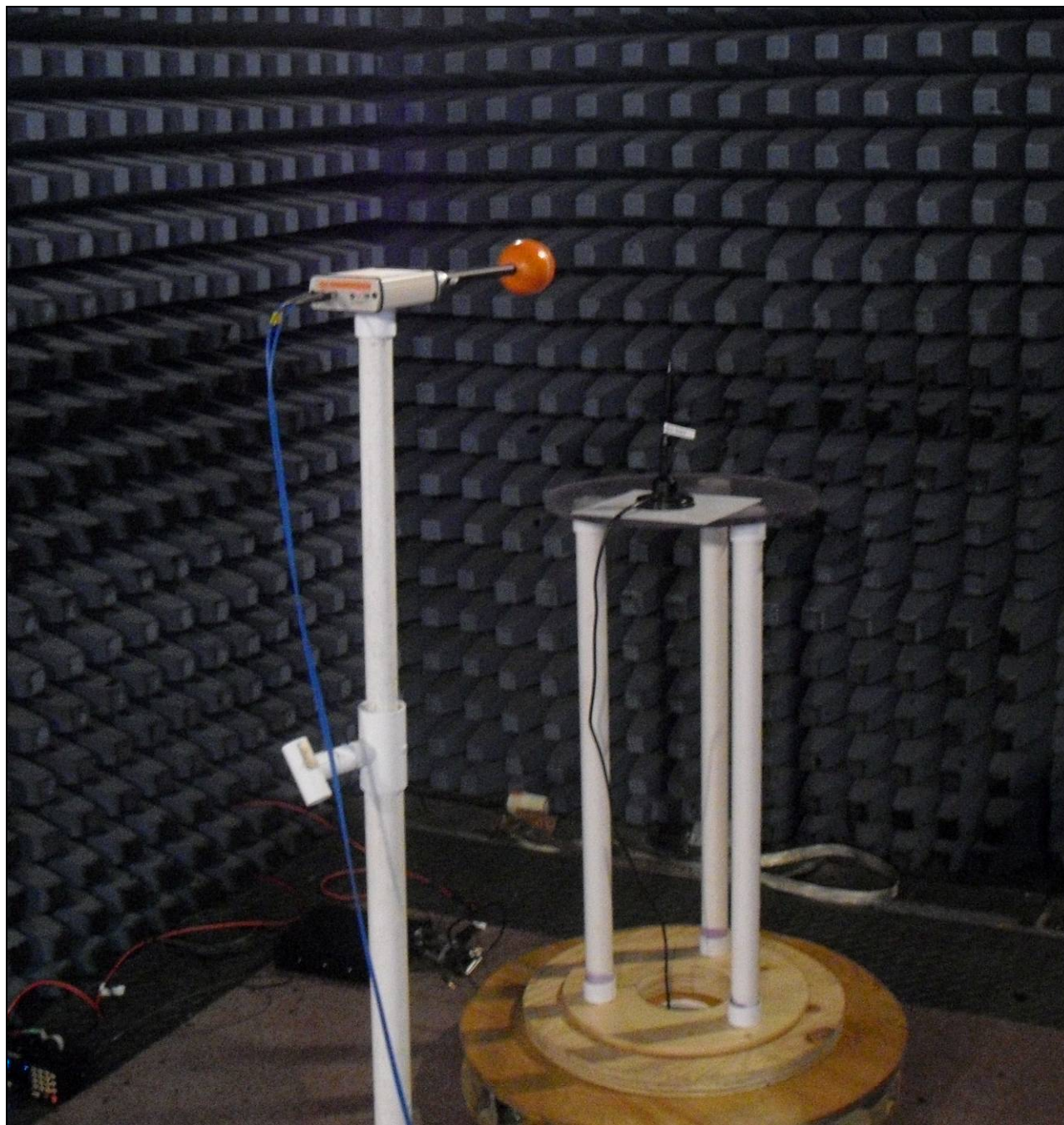
General Population / Uncontrolled Environment at 39.06 CCAS-SB-900 or CCAS-SB-700			
	Raw	Corrected V/m	PD mW/cm ²
10	16.8	13.776	0.050339
20	20.4	16.728	0.074224
30	22.2	18.204	0.087901
40	24.5	20.09	0.107058
50	26.02	21.3364	0.120754
60	30.4	24.928	0.164829
70	34.4	28.208	0.211059
80	36.7	30.094	0.240225
90	38.4	31.488	0.262996
100	41.3	33.866	0.304219
110	41.4	33.948	0.305694
120	37.3	30.586	0.248144
130	32.3	26.486	0.186076
140	27.8	22.796	0.13784
150	25.7	21.074	0.117802
160	22.1	18.122	0.087111
170	19.9	16.318	0.070631
180	18.02	14.7764	0.057916
190	16.75	13.735	0.05004
200	15.49	12.7018	0.042795

Uncontrolled Environment 84.05 cm	0 dBi Sti-Co CCAS-SB-900 or CCAS-SB-700
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.15
Lower Body (0.1 m to 0.9 m)	0.15
Upper Body (1.0 m to 2.0 m)	0.15

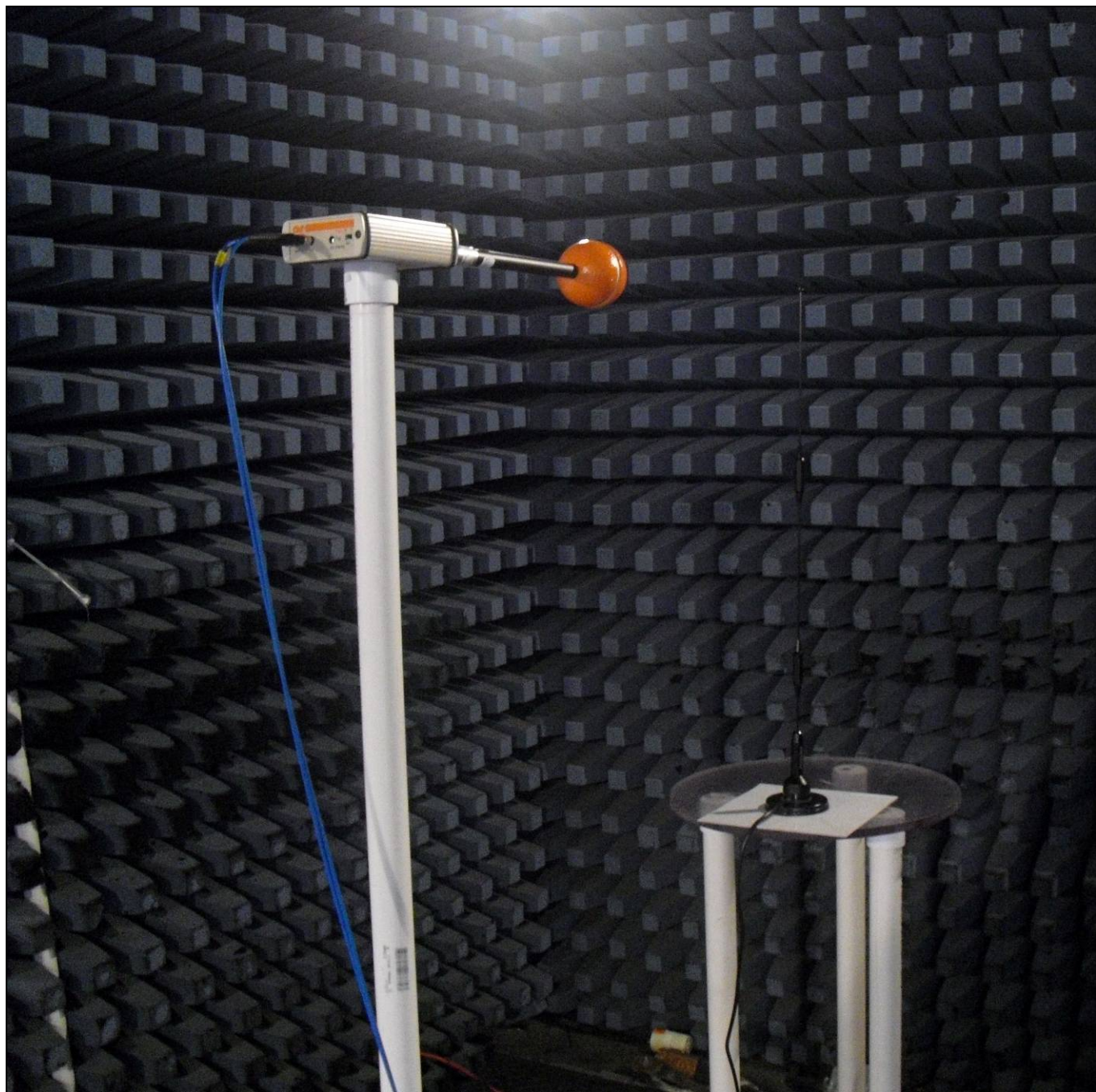
800 MHz Results

Occupational / Controlled Environment at 17.47 CCAS-SB-900 or CCAS-SB-700			
	Raw	Corrected V/m	PD mW/cm ²
10	20.9	17.138	0.077907
20	20.4	16.728	0.074224
30	24.4	20.008	0.106186
40	26.1	21.402	0.121498
50	35.5	29.11	0.224772
60	40.9	33.538	0.298355
70	57.2	46.904	0.58355
80	80.8	66.256	1.164418
90	102.3	83.886	1.866541
100	91.9	75.358	1.50632
110	70.3	57.646	0.881449
120	51.1	41.902	0.465724
130	42.4	34.768	0.32064
140	32.9	26.978	0.193054
150	26.5	21.73	0.12525
160	22.53	18.4746	0.090533
170	18.8	15.416	0.063038
180	16.7	13.694	0.049742
190	15.44	12.6608	0.042519
200	13.6	11.152	0.032989

Controlled Environment 37.58 cm	0 dBi Sti-Co CCAS-SB-900 or CCAS-SB-700
Part of the Body/Averaging Points	Averaged Power Density
Whole Body (0.1 m to 2.0 m)	0.41
Lower Body (0.1 m to 0.9 m)	0.50
Upper Body (1.0 m to 2.0 m)	0.34



Photograph 1. Test Setup - AN-225005-001



Photograph 2. Test Setup - AN-225005-005



Photograph 3. Test Setup - CCAS-SB-900 or CCAS-SB-700



IV. Test Equipment

Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ANSI/NCSL Z540-1-1994 and ANSI/ISO/IEC 17025:2000.

MET Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1T4353	POWER METER	HEWLETT PACKARD	E4416A	04/13/2010	04/13/2011
1T4477	POWER SENSOR	AGILENT	E9304A	12/14/2009	12/14/2010
1T4148	SHIELD ROOM #2 SEMI-ANECHOIC	RANTEC	20	SEE NOTE	
1T4566	FIELD PROBE, 27 MHZ - 60 GHZ	AMPLIFIER RESEARCH	FP7060	12/21/2009	12/21/2010

Table 7. Test Equipment List

Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.



End of Report